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PTO/SB/21 (09-04) (AW 10/2004) Approved for use through 7/31/2006. OMB 0651-0031

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 50

	1	
Application Number	10/667,819	
Filing Date	September 22, 2003	_
First Named Inventor	Calvin Krusen	
Art Unit	2877	
Examiner Name	Richard A. Rosenberger	
Attorney Docket No.	TGR-102US	

ENCLOSURES (Check all that apply)							
Fee Transmittal Form Fee Attached	Drawing(s)  Licensing-related Papers	After Allowance Communication to TC					
Amendment/Reply After Final Affidavits/Declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application	Petition  Petition to Convert to a Provisional Application  Power of Attorney, Revocation, Change of Correspondence Address  Terminal Disclaimer  Request for Refund  CD, Number of CD(s)  Landscape Table on CD	Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Other Enclosure(s) (please identify below):  Return Postcard References International Search Report					
Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks:						
SIGNATU	RE OF APPLICANT, ATTORNEY OR AG	ENT					
Firm Name RatnerPrestia							
Signature Printed Name Jacques L. Etkowicz							
Date July 8, 2005	Registration No.	41,738					
CERTIFICATE OF TRANSMISSION / MAILING							
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:							
Signature Kathleet P. Carney							
Typed or Printed Name Kathleen P. Carney		Typed or Printed Name Kathleen P. Carney Date July 8, 2005					

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: Applicant:

10/667,819 Calvin Krusen

Filed:

September 22, 2003

Title:

SYSTEM AND METHOD FOR CAVITY RING-DOWN SPECTROSCOPY USING

CONTINUOUSLY VARYING CONTINUOUS WAVE EXCITATION

TC/A.U.:

2877

Examiner:

Richard A. Rosenberger

Docket No.:

TGR-102US

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (RP) submitted herewith. A copy of the references listed on the 1449 form, other than U.S. patents, is enclosed.

Please note that U.S. 5,528,040 was submitted on September 22, 2003 and, therefore, is not included again.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Reference WO 03/031949 is not in the English language, but an English abstract thereof is attached to the copy of the reference submitted herewith and was cited by a foreign patent office in a counterpart foreign application. A copy of this English language search report, indicating the degree of relevance determined by the foreign patent office is submitted herewith. MPEP Section 609A(3), second paragraph.

This Information Disclosure Statement is being filed before mailing of the first Official Action. No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or statement is required. 37 C.F.R. § 1.97(b).

#### **STATEMENT**

The undersigned hereby states that each item of information disclosed in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

RatnerPresti

Jacques L. Etkowicz, Reg. No. 41,738

Attorney for Applicant

JLE/kpc

Enclosures: PTO Form 1449

(3) References

International Search Report

Transmittal Form

Dated: July 8, 2005

P. O. Box 980

Valley Forge, PA 19482

(610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **18-0350** of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

July 8/2005

Kathleen P. Carney

KPC\_I:\TGR\102US\IDS\_02.DOC

Substitute for Form 1449A/PTO

# **ÍNFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 of 2

	Complete if Known	
Application Number	10/667,819	
Filing Date	September 22, 2003	·····
First Named Inventor	Calvin Krusen	
Art Unit	2877	
Examiner Name	Richard A. Rosenberger	
Attorney Docket No.	TGR-102US	

Considered

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2 (if known)</sup>	Issue/ Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-6,064,488	05/16/2000	Brand et al.		
		US-2001/0003482 A1	06/14/2001	Zare et al.		
		US-2002/0015427 A1	02/07/2002	Pilgrim et al.		
		US-6,504,145 B1	01/07/2003	Romanini et al.		
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5 (If known)</sup>	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ <sup>6</sup>
		WO 03/031949 A1	04/17/2003	Morville et al.		
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Examiner	1			Date		

Signature \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to Applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional).

<sup>&</sup>lt;sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

<sup>&</sup>lt;sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 

\*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>&</sup>lt;sup>6</sup>Applicant is to place a check mark here if English language translation is attached. The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for Form 1449B/PTO	Complete if Known		
	Application Number	10/667,819	
INFORMATION DISCLOSURE	Filing Date	September 22, 2003	
STATEMENT BY APPLICANT	First Named Inventor	Calvin Krusen	<u> </u>
(Use as many sheets as necessary)	Art Unit	2877	
	Examiner Name	Richard A. Rosenberger	
SHEET 2 of 2	Attorney Docket No.	TGR-102US	

**NON-PATENT LITERATURE DOCUMENTS** 

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,

Initials*	No.1	country where published	
		WILLS J B ET AL., Number density and temperature of acetylene in hot-filament and arc-jet activated CH4/H2 gas mixtures measured using diode laser cavity ring-down absorption spectroscopy, Diamond and Related Materials, vol. 12, no. 8, August 2003, pages 1346-1356	
		WEN-BIN YAN ET AL., Trace gas detection with CW cavity ring-down laser absorption spectroscopy, Advanced Semiconductor Manufacturing Conference and Workshop, 2000 IEEE/SEMI September 12-14, 2000, Piscataway, NJ, USA, September 12, 2000, pages 203-206	
		International Search Report for PCT International Application PCT/US2004/028127, mailed June 8, 2005	
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Examiner Signature		Date Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

considered. Include copy of this form with next communication to Applicant.

Applicant's unique citation designation number (optional).

Applicant is to place a check mark here if English language translation is attached.

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